

Work Order ID 66457

Tuesday, February 15, 2011 10:36:43 AM



Page 1

Item ID: D4007-3	Accept		Setup	Start	
Revision ID:				Stop	
Item Name: Support					
Start Date: 2/16/2011	Start Qty: 4.00		Cust Item ID:		
Required Date: 3/2/2011	Req'd Qty: 4.00		Customer:		
Reference:					

Approvals:	Process Plan: <u>mf</u>	Date: <u>11-02-15</u>	Tooling:	Date:	Run	Start	
	QC:	Date:	SPC (Y/N):	Date:		Stop	

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
D4007	A

100		0.00							
Purchasing	Memo	0.00							
Purchasing	Issue P/O: <u>13499</u>								
	Purchase part as per Dwg D4007								
	Possible Supplier: GFI								
	Material release note required								
110	Receive & Inspect for Damage & Mat'l Certs	0.00							
Packaging	Memo	0.00							
Packaging									
120	QC6- Inspect dimensions to drawing	0.00							
QC	Memo	0.00							
Quality Control									

cy 11/02/15 (4)

4/13/20 (4)

44

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 66457

Tuesday, February 15, 2011 10:36:43 AM



Page 2

Item ID: D4007-3

Accept



Setup Start



Revision ID:

Stop



Item Name: Support

Start Date: 2/16/2011 Start Qty: 4.00



Cust Item ID:

Required Date: 3/2/2011 Req'd Qty: 4.00



Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

130

Chemical Conversion Coat per QSI005 4.1

0.00



HandFinish

Memo

0.00

Hand Finishing

4 BR 11-3-28.

140

QC3- Inspect Part Finish

0.00



QC

Memo

0.00

Quality Control

4 d 11/03/25

150

Identify as per dwg & Stock Location: 107

0.00



Packaging

Memo

0.00

Packaging

11/3/30 408

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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NOTE: Date & initial all entries


Work Order ID 66457

Tuesday, February 15, 2011 10:36:43 AM

Page 3

Item ID: D4007-3 Accept  Setup Start 
Revision ID: Stop 
Item Name: Support
Start Date: 2/16/2011 Start Qty: 4.00  Cust Item ID:
Required Date: 3/2/2011 Req'd Qty: 4.00  Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start 
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop 

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
160  QC	QC21- Final Inspection - Work Order Release	0.00							
Quality Control	Memo	0.00							

mf
11-03-30

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Tuesday, February 15, 2011 10:36:40 AM

Page 1

Work Order ID: 66457

Parent Item: D4007-3

Parent Item Name: Support




Start Date: 2/16/2011

Required Date: 3/2/2011

Start Qty: 4.00

Required Qty: 4.00

Comments: IPP rev A 09.12.18 new Issue Prelim EC verified: DD IPP Rev:B
10.05.03 as per ECN10-562 DD verified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4007-3P  Support		Purchased	No			110	Each	0.0000	1	4			



4/13/28 (4)

W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	

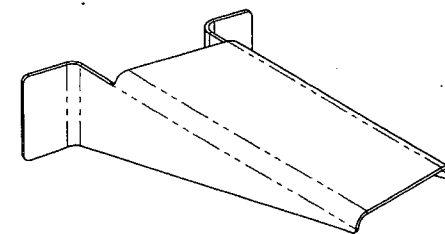
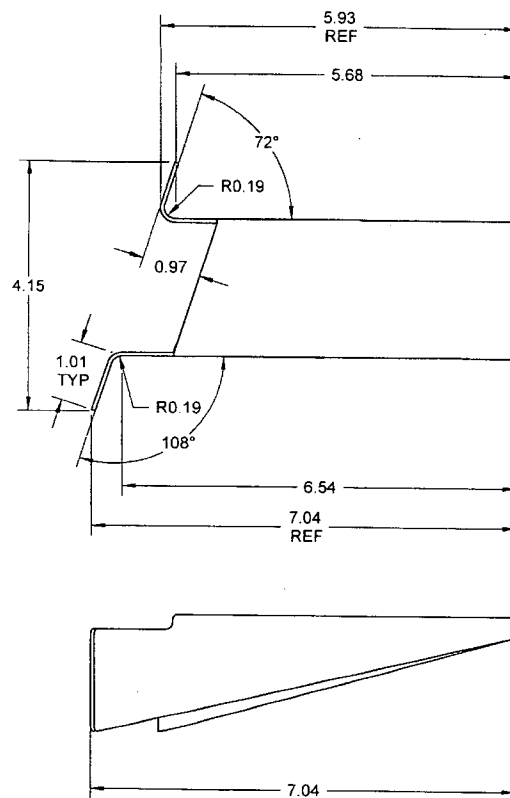
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

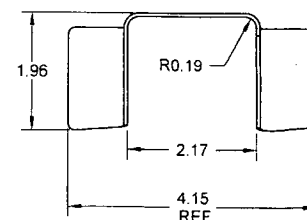
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4007-1	JCA-M47-2-02



#66457



D4007-1 TOP SUPPORT BRACKET

RELEASED
2010-05-05

- NOTES:**
- 1) MATERIAL: MADE FROM D4007-1F
 - 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4007-1" AND B/N USING FINE POINT PERMANENT INK MARKER
 - 7) WEIGHT: 0.17 lbs

REV.	DESCRIPTION	BY	DATE
A	NEW ISSUE		10.02.05
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.02.05		

DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		REV. A
DRAWING NO.	D4007	SHEET 1 OF 5
TITLE	SUPPORT	SCALE NTS

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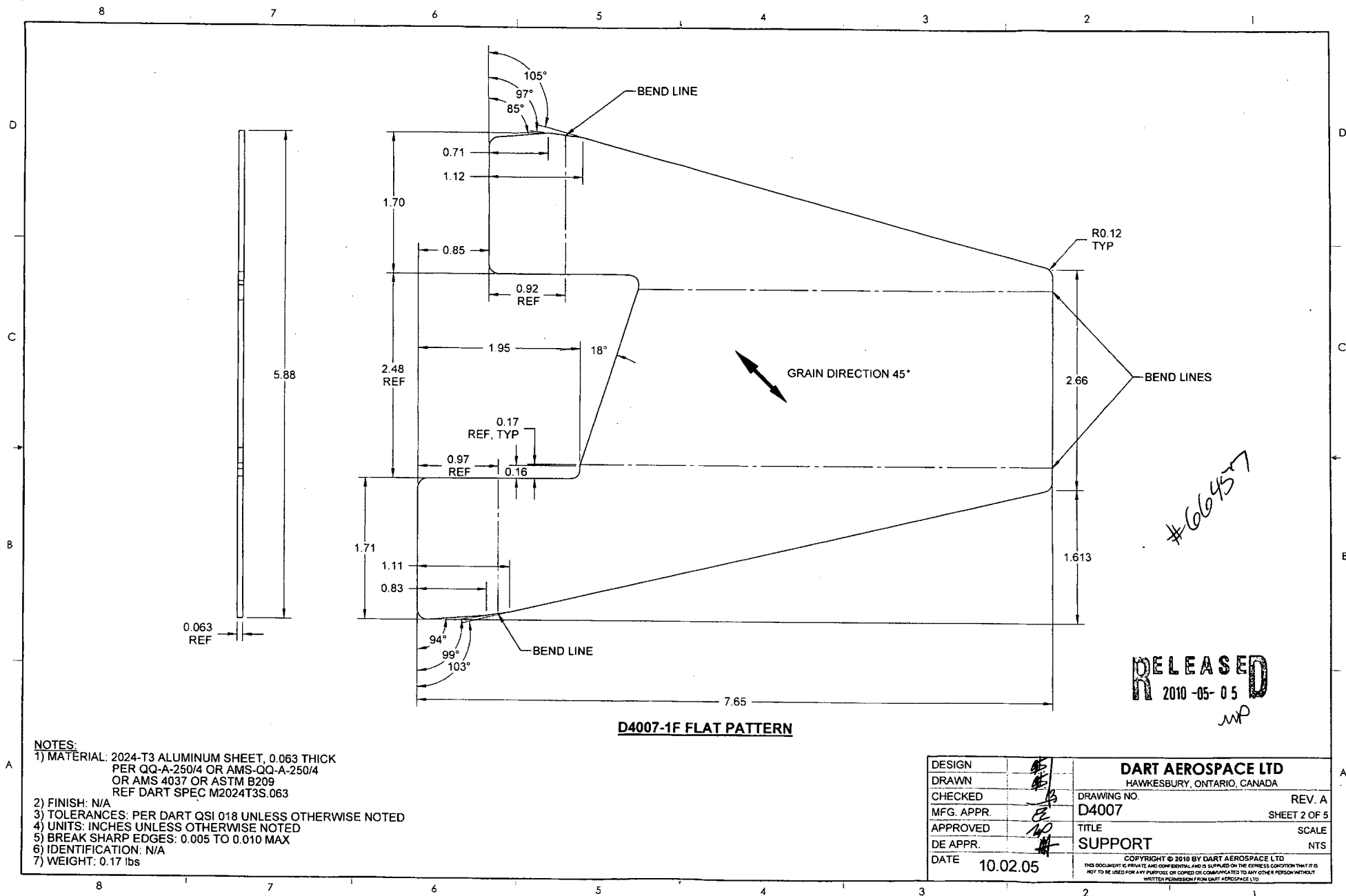
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

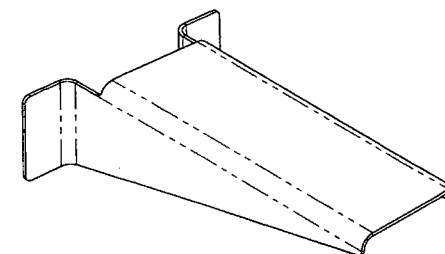
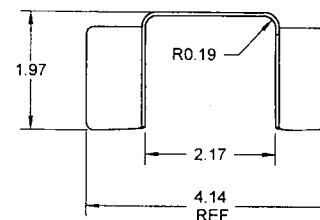
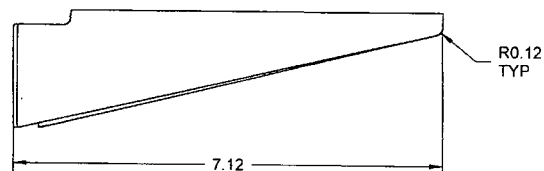
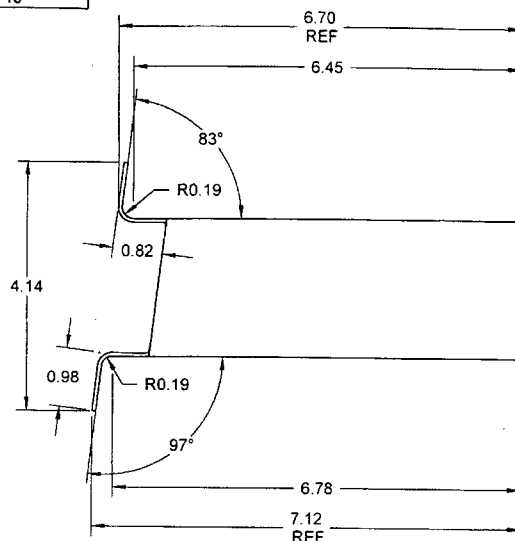
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4007-3	JCA-M47-2-18



D4007-3 TOP SUPPORT BRACKET

NOTES:

- 1) MATERIAL: MADE FROM D4007-3F
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4007-3" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 0.19 lbs

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO. D4007	REV. A
MFG. APPR.			SHEET 3 OF 5
APPROVED		TITLE SUPPORT	SCALE
DE APPR.			NTS
DATE	10.02.05	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD	

RELEASED
2010-05-05
MP

#66457

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

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NOTE: Date & initial all entries

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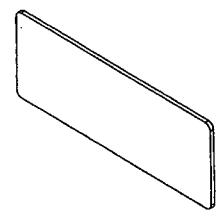
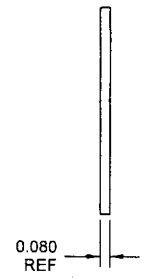
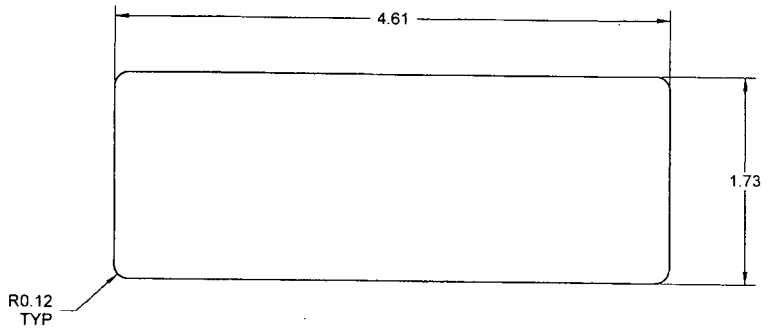
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4007-5	JCA-M47-2-24



D4007-5 PACKER

#66457

RELEASED
2010-05-05
MP

NOTES:

- 1) MATERIAL: 6061-T6/T62 ALUMINUM SHEET, 0.080 THICK
PER QQ-A-250/11 OR AMS-QQ-A-250/11
OR AMS 4025 OR AMS 4027 OR ASTM B209
REF DART SPEC M6061T6S.080
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4007-5" AND B/N USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 0.06 lbs

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO. D4007	REV. A
MFG. APPR.		TITLE SUPPORT	SHEET 5 OF 5
APPROVED			SCALE
DE APPR			NTS
DATE	10.02.05	<small>COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

W/O:		WORK ORDER CHANGES					
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NOTE: Date & initial all entries



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO13499**

Purchase Order Date 2/15/11
PO Print Date 2/15/11

Page Number 1 of 1

Order From :

VC-GFI001

GFI
180 AVENUE LABROSSE
POINTE CLAIRE, QC H9R 1A1
CA

Contact Name
Vendor Phone 514 630 4877
Vendor Fax 514 630 4849
Vendor Account Nbr

Buyer Chantal Lavoie
Requisition Nbr
Tax Resale Nbr 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

Ship To :

DART AEROSPACE LTD 1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

PAID
C. Lavoie
e-mail Radio

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	D4007-3P	Support	3/04/11 Yes	4.00 Each	FedEx PI collect	\$80.0000	\$320.00

Special Inst: AS PER DWG D4007 REV. A
B66457

PO Total:

\$320.00

CERTIFICATE OF CONFORMITY
REQ'D UPON DELIVERY

MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

Change Nbr: 1

Change Date: 2/15/11

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable



180 AVENUE LABROSSE
POINTE-CLAIRE, QC, CANADA H9R 1A1
TÉL.:(514) 630-4877 - FAX:(514) 630-4849

I est une division de Thomas & Betts Fabrication Inc. / GFI is a division of Thomas & Betts Manufacturing Inc.



BON DE LIVRAISON / SHIPPING MEMO

DATE DE LIVRAISON / SHIPPING DATE			N° DE BON DE LIVRAISON SHIPPING MEMO NO	PAGE
JR - DY	MO - MO	AN - YR		
22	03	11	0458381	1/1




NDU À / SOLD TO

EXPÉDIÉ À / SHIP TO

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

CODE DE CLIENT CUSTOMER CODE	N° DE CONTRAT JOB NO	VOTRE N° DE COMMANDE YOUR PURCHASE ORDER NO	EXPÉDIÉ PAR SHIP VIA
DART	GFI-0299	0227583	PO13499

QUANTITÉ QUANTITY	N° DE PIÈCE PART NO	DESCRIPTION
4	D4007-3P	SUPPORT CERTIFICATE OF CONFORMANCE REQ
<p>MFG. JOB# 30211141-001 QTY 1 30227583-001 3</p> <p> <i>DA</i></p>		

EXPÉDITEUR SHIPPER	N° DE BON DE LIVRAISON SHIPPING MEMO NO
	

REÇU PAR / RECEIVED BY

DATE

TOUTES LES RÉCLAMATIONS DOIVENT ÊTRE FAITES EN DEDANS DE 5 JOURS DE LA RÉCEPTION.
ALL CLAIMS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF GOODS.

CERTIFICATE OF COMPLIANCE
CERTIFICAT DE CONFORMITE



Membre de / A Member of **Thomas & Betts**

180 LABROSSE AVENUE
POINTE CLAIRE, QC
H9R 1A1

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON K6A 1K7

CERTIFICATE NO. 2 OUR JOB NO J0227583 SHIPPING MEMO 0458381

ITEM	QUANTITY	PURCHASE ORDER	PART NUMBER	REV	NAME	DWG ISSUE
	<u>4 PCS</u>	<u>PO13499</u>	<u>D4007-3P</u>		<u>SUPPORT</u>	<u>A</u>

MATERIAL

.063 THK AL 2024-T3
(AMS-QQ-A-250/4)

SUPPLIED BY

SAMUEL / KAISER ALUMINUM

MAT. REL. NO.

419327A2 AND 511953A2

	PROCESS	PROCESSOR	RELEASE NOTE #
1	<u>FIRST ARTICLE INSPECTION REPORT ON FILE</u>	<u>GFI</u>	<u>N/A</u>
2	<u>REF. GFI MANUFACTURING JOB NUMBER</u> <u>J0211141-001 (1 PC) AND J0227583-001 (3 PCS)</u>		
3			
4			
5			
6			
7			
8			
9			

WE HEREBY CERTIFY ALL THE PARTS COVERED BY THIS CERTIFICATE HAVE BEEN MANUFACTURED FROM MATERIAL SUPPLIED ON RELEASE NOTE SHOWN ABOVE AND THAT ALL PARTS HAVE BEEN INDIVIDUALLY INSPECTED AND CONFORM TO THE DRAWINGS AND PURCHASE ORDER REFERENCED ABOVE.

DATE 22 MARCH 2011

G.F.I. Q.C. REP. *Patricia Ham*





Programme d'Assurance Qualité Enregistré / Registered Q.A. Program
ISO 9001:2008 + AS9100B

LETTRE DE CONFORMITÉ - LETTER OF COMPLIANCE

Date: JANUARY 13,2011

Company Name: GFI Division of Thomas & Betts limited
Address: 180 avenue Labrosse
City: Pointe-Claire Qc
Zip Code: H9R 1A1

du client: 0077841
Customer's order #:

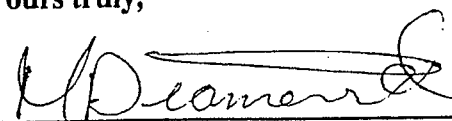

de commande SSMQ: 091317
SSMQ's Order #:

La présente est pour certifier que le matériel détaillé ci-dessous est conforme aux exigences de votre commande et des normes du grade tel que décrit:

The following is to certify that the material listed below meets your order requirements and grade standards as described:

Notre/Our Item #	# de pièces/ # of pieces	Épaisseur/Grandeur Guage/Size	Alliage/Trempe Alloy/Temper	Spécification / Specification	Lot/Heat
01	1	.063" X 48" X 144"	2024 T3	AMS-QQ-A-250/4	511953A2

Bien à vous,
Yours truly,



LES METAUX SPECIALISES SAMUEL
21525 CLARK-GRAHAM
BAIE D'URFE, QUEBEC, CANADA
H9X 3T5

(514) 457-3399 FAX(514) 457-9393

No 001468863



PAGE 1 DE/OF 1

TRANSPORTEUR/CARRIER NAME
CASTERO TRANSPORT

CAMION/TRUCK
099

NOM DE LA BRANCHE/SALES BRANCH NAME
LES METAUX SPECIALISES SAMUEL

DATED'EXP/DATE OF SHIP
9/14/09

VENDU À/SOLD TO:

GFI DIVISION OF THOMAS & BETTS, LIMITED
180 AVENUE LABROSSE
POINTE CLAIRE
POINTE-CLAIRE
QC
H9R1A1 (514) 630-4877

EXPÉDIÉ À/SHIP TO: TÀB: DEST

G.F.I. INC
180 AVENUE LABROSSE
POINTE-CLAIRE
QC
H9R1A1 CA (210678-00001)

N° COMMANDE
N° ITEM
489556-01

DESCRIPTION ET POIDS/DESCRIPTION AND WEIGHT

#Comm du client: 0075894

1 PCS FEUILLES ALUMINIUM 2024 T3
.0630"x48"x144"

QQA250/4 BARE

Cert/Test: TRUCK
43 LVR

Description	Art	Pd ca	Qté	#Étiq	Vendeur
#Étiq mln	#À soul			Étiq princ	#Coul
1297052	1	48.000	43	4564255	017
Total:	1	48.000	43	D851930	419327A2

Poids total:

#Total paquets: 1

43 LVR

Commentaires connaissance:

CERTIFICAT DE CONFORMITÉ
LE MATÉRIEL DÉTAILLÉ CI-DESSUS EST CERTIFIÉ
CONFORME AUX EXIGENCES DE VOTRE COMMANDE ET AUX
SPÉCIFICATIONS DES NORMES DU GRADE. SVP VOUS
RÉFÉREZ AUX CERTIFICATS CI-JOINTS. AUTORISÉ PAR:

DATE 11-2-09
PAM BOOTH
ADMINISTRATION



NIR: R-539477-1

PRÉPARE PAR CHARGES	<input checked="" type="checkbox"/> A <input type="checkbox"/> B <input type="checkbox"/> C <input type="checkbox"/> D <input type="checkbox"/> E <input type="checkbox"/> F <input type="checkbox"/> G <input type="checkbox"/> H <input type="checkbox"/> I <input type="checkbox"/> J <input type="checkbox"/> K <input type="checkbox"/> L <input type="checkbox"/> M <input type="checkbox"/> N <input type="checkbox"/> O <input type="checkbox"/> P <input type="checkbox"/> Q <input type="checkbox"/> R <input type="checkbox"/> S <input type="checkbox"/> T <input type="checkbox"/> U <input type="checkbox"/> V <input type="checkbox"/> W <input type="checkbox"/> X <input type="checkbox"/> Y <input type="checkbox"/> Z	PORTÉ/COLLECT	INST VOITURIER/DRIVER INSTRUCTIONS	REÇU PAR/RECEIVED BY
EXPÉDITEUR/DISPATCHER	VOITURIER/DRIVER			

SHIP TO: SAMUEL BAIE D'URFE 21525 CLARK-GRAHAM BAIE D'URFE, PQ, CA H9X3T5
SOLD TO: SAMUEL LAVAL 2225 FRANCIS HUGHES LAVAL, PQ, CA H7S1N5

**KAISER
ALUMINUM**
Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4146676

CUSTOMER PO NUMBER: N21479		WORK PACKAGE:	CUSTOMER PART NUMBER:		SHIP RUN/LOAD ID: 101411/2	GOV'T CONTRACT NUMBER:
KAISER ORDER NO: 1074833	LINE ITEM: 3	SHIP DATE: 11-NOV-2008	ALLOY: <u>2024</u>	CLAD: BARE	TEMPER: <u>T3</u>	PRODUCT DESCRIPTION: MILL FINISH SHEET
WEIGHT SHIPPED: 3180 LB	QUANTITY: 71 PCS EST.	B/L NUMBER: 2020211	GAUGE: <u>0.0630 IN</u>	WIDTH: 48.000 IN	LENGTH: 144.000 IN	

Certified Specifications

AMS 4037/RevN
CMMP 019/RevD

S
11/03/28

AMS-QQ-A-250/4/RevA
CMMP 025/RevR

ASTM B 209/Rev07

Test Code: 1504

Test Results

Lot: 419327A2 Cast 443 Drop 13 Ingot 3

(ASTM E8/B557)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	67.4 : 67.6 (465 : 466)	45.0 : 45.1 (310 : 311)	17.1 : 19.0

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.09	0.25	4.4	0.58	1.3	0.01	0.12	0.02	0.01	0.01	TOT 0.03

ALLOY LIMITS

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
2024 MIN	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT	0.15

Aluminum Remainder

TEST NOTES

2024-T351 plate 3.001-4.000" thick, if ultrasonically inspected, meets requirements of CMMP025 per SDR CMMP025 Kaiser T-2.



Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4146676

CERTIFICATION

KAISER ALUMINUM FABRICATED PRODUCTS, LLC (KAISER) HEREBY CERTIFIES THAT METAL SHIPPED UNDER THIS ORDER WAS MELTED IN THE U.S.A OR CANADA AND MANUFACTURED IN THE U.S.A. AND HAS BEEN INSPECTED, TESTED, AND FOUND IN CONFORMANCE WITH THE REQUIREMENTS OF THE APPLICABLE SPECIFICATIONS AS INDICATED HEREIN. ALL METAL WHICH IS SOLUTION HEAT-TREATED COMPLIES WITH AMS 2772. ANY WARRANTY IS LIMITED TO THAT SHOWN ON KAISER'S STANDARD GENERAL TERMS AND CONDITIONS OF SALE. TEST REPORTS ARE ON FILE, SUBJECT TO EXAMINATION. TEST REPORTS SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF ALUMINUM FABRICATED PRODUCTS, LLC LABORATORY. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULANT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. ISO 9001:2000 CERTIFIED

BILL POYNOR, LABORATORIES SUPERVISOR

A handwritten signature in black ink, appearing to read "Bill Poynor", written over a horizontal line.

SHIP TO:

SAMUEL BAIE D'URFE(SHIP TO)
21525 CLARK-GRAHAM
BAIE D'URFE, PQ, CA H9X 3T5

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4198169

SOLD TO:

SAMUEL LAVAL
2225 FRANCIS HUGHES
LAVAL, PQ, CA H7S1N5

CUSTOMER PO NUMBER: C62606		WORK PACKAGE:		CUSTOMER PART NUMBER:		SHIP RUN/LOAD: 101830/10		GOVT CONTRACT NUMBER:	
KAISER ORDER NO: 1101231	LINE ITEM: 2	SHIP DATE: 1-JUL-2010	ALLOY: 2024	CLAD: BARE	TEMPER: T3	PRODUCT DESCRIPTION: HT Flat Sheet			
WEIGHT SHIPPED: 4360 LB	QUANTITY: 97 PCS EST.	B/L NUMBER: 2027970	GAUGE: 0.0630 IN		DIAMETER/WIDTH: 48.000 IN		LENGTH: 144.000 IN		

Certified Specifications

AMS 4037/RevN
CMMP 019/RevD

AMS-QQ-A-250/4/RevA
CMMP 025/Revs

ASTM B 209/Rev07

Test Code: 1504

Test Results

Lot: 511953A2 Cast 496

Drop 18

Ingot 5

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T3	LT / 2 (Min:Max)	67.2 : 67.6 (463 : 466)	44.9 : 44.9 (310 : 310)	16.4 : 18.4

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.09	0.20	4.4	0.56	1.4	0.01	0.09	0.01	0.01	0.00	TOT 0.03

ALLOY LIMITS

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
2024 MIN	0.00	0.00	3.8	0.30	1.2	0.00	0.00	0.00	0.00	0.00	EACH	0.05
MAX	0.50	0.50	4.9	0.9	1.8	0.10	0.25	0.15	0.05	0.05	TOT	0.15

Aluminum Remainder

TEST NOTES

2024-T351 plate 3.001-4.000" thick, if ultrasonically inspected, meets requirements of CMMP025 per SDR CMMP025-KaiserT-3.



KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4198169



CERTIFICATION

KAISER ALUMINUM FABRICATED PRODUCTS, LLC (KAISER) HEREBY CERTIFIES THAT METAL SHIPPED UNDER THIS ORDER WAS MELTED IN THE UNITED STATES OF AMERICA OR A QUALIFYING COUNTRY PER DFARS 225.872-1(a), WAS MANUFACTURED IN THE UNITED STATES OF AMERICA, AND MEETS THE REQUIREMENTS OF DFARS 252.225 FOR DOMESTIC CONTENT. THIS MATERIAL HAS BEEN INSPECTED, TESTED, AND FOUND IN CONFORMANCE WITH THE REQUIREMENTS OF THE APPLICABLE SPECIFICATIONS AS INDICATED HEREIN. ALL METAL WHICH IS SOLUTION HEAT TREATED COMPLIES WITH AMS 2772. ANY WARRANTY IS LIMITED TO THAT SHOWN ON KAISER'S STANDARD GENERAL TERMS AND CONDITIONS OF SALE. TEST REPORTS SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF KAISER ALUMINUM FABRICATED PRODUCTS, LLC LABORATORY. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTIRE ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. ISO-9001:2000 CERTIFIED.

BILL POYNOR, LABORATORIES SUPERVISOR